

## AUTONOMIC CLUSTER-BASED OPTIMIZATION

### ABSTRACT

A system for autonomically configuring a cluster of nodes can include a knowledge base of workload descriptions and associated configuration parameters, a genetic computing processor programmed to produce a selection of configuration parameters for a particular workload based upon a set of existing configuration parameters in the knowledge base, and, a controller coupled to the knowledge base and the cluster of nodes. The controller can include programming for monitoring the cluster of nodes and for applying individual ones of the selection of configuration parameters to the cluster of nodes to achieve an improved state of operation.